	Application No.	Applicant(s)	cant(s)	
Notice of Allowability	OLCONET AL			
	09/908,988 Examiner	OLSON ET AL. Art Unit	T	
	William W. Moore	1652		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate commure (IGHTS. This application is su	this application. If not includ nication will be mailed in due	ed course. THIS	
 This communication is responsive to the Amendment filed The allowed claim(s) is/are 1, 3-6, 8-14, and 16-18. The drawings filed on are accepted by the Examine Acknowledgment is made of a claim for foreign priority una) All Bome* C) None of the: 	er.		<u>003</u> .	
1. Certified copies of the priority documents have	e been received.			
2. Certified copies of the priority documents have		No		
3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).			tion from the	
* Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority u (a) The translation of the foreign language provisional a 6. Acknowledgment is made of a claim for domestic priority u	application has been received.		·	
Applicant has THREE MONTHS FROM THE "MAILING DATE" or below. Failure to timely comply will result in ABANDONMENT of				
7. A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which gives reas			OTICE OF	
 CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftsper 1) ☐ hereto or 2) ☐ to Paper No 	son's Patent Drawing Review	(PTO-948) attached		
(b) ☐ including changes required by the proposed drawing(c) ☐ including changes required by the attached Examiner				
Identifying indicia such as the application number (see 37 CFR 1 each sheet.	.84(c)) should be written on the	drawings in the front (not the	back) of	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T 			Note the	
Attachment(s)				
 1 ☐ Notice of References Cited (PTO-892) 3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 ☐ Information Disclosure Statements (PTO-1449), Paper No 7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4⊠ Interview 5 6⊠ Examiner's	nformal Patent Application (I Summary (PTO-413), Paper s Amendment/Comment s Statement of Reasons for A	No. <u>idem</u> .	

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EXAMINER'S AMENDMENT

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Applicant's Amendment after Final Rejection filed September 16, 2003, amending claim 4, has been entered. As claims 2, 7, 15, and 19-115 were previously cancelled, claims 1, 3-6, 8-14, and 16-18 remain in the application. The examiner's amendment to claims 1, 12, and 18 hereinbelow clarifies the structure and function of a MURF-1 product encoded by a claimed DNA segment, makes each of the claims 3-6, 8-14, and 16-18 dependent upon claim 1, and simplifies the structure of claim 18. Claims 1, 3-6, 8-14, and 16-18 are allowed herewith

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Rewrite claim 1 thus:

- --- 1. An isolated DNA segment encoding a murine MURF-1 polypeptide either having,
 - (i) the amino acid sequence set forth in SEQ ID NO:2, or,
- (ii) a variant of the amino acid sequence set forth in SEQ ID NO:2 capable of binding a microtubule wherein the variant is encoded by a nucleic acid sequence that hybridizes to SEQ ID NO:1, from position 199 through position 1296, inclusive, under conditions of 10mM Tris-HCI (pH 8.3), 50mM KCl, and 1.5 μM MgCl₂ at a temperature of 72°C. ---

Rewrite claim 12 thus:

--- 12. A host cell comprising a DNA segment that encodes a murine MURF-1 polypeptide of claim 1, wherein said DNA segment comprises a promoter heterologous to the murine MURF-1 polypeptide coding region set forth in SEQ ID NO:1. ---

Rewrite claim 18 thus:

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--- 18. A method of using a host cell producing a MURF-1 polypeptide comprising,

(i) transforming a host cell with an expression cassette comprising a polynucleotide encoding a murine MURF-1, MURF-2 or MURF-3 polypeptide the DNA segment of claim 1 and a promoter active in said host cell, said promoter and capable of directing the expression of said polypeptide said method comprising, and,

(ii) culturing the host cell under conditions suitable for the expression of said murine MURF-1, MURF-2 or MURF-3 polypeptide. ---

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Authorization for this examiner's amendment was given in a telephone interview with Mr. Stephen Highlander on December 11, 2003.

The following is an examiner's statement of reasons for allowance:

Support for the above examiner's amendment is found in the specification at, *inter alia*, pages 3-6, 14-19, 27, 77, 78, 81-85 and Figures 3A, 3B, 4-A-4G, 5A-5C, and 7A-7D. The co-inventors herein were the first to discover a ring finger protein expressed in skeletal and cardiac muscle cells that binds to microtubules and both regulates the stabilization of microtubules and the formation of microfilaments. The hybridization conditions recited in clause (ii) of claim 1 as amended hereinabove are adequate to identify nucleic acid sequences capable of encoding MURF-1 variants that bind tubulin according to the teachings of the specification. Various kinds of alterations of a MURF-1 amino acid sequence are disclosed and the specifications teaches how to determine, with assays exemplified in Figures 3A, 3B, 4-A-4G, 5A-5C, and 7A-7D, which MURF-1 variants will meet the functional limitation of clause (ii) of claim 1 as amended above: binding tubulin.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

In view of the need for the accelerated publication of allowed patent applications, see 65 Fed. Reg. 54604 (8 September 2000) and 1328 Off. Gaz. Pat. Office 77 (19 September 2000), Applicant is advised that post allowance communications such as Amendments under 37 CFR 1.132(a) and Information Disclosure Statements that comply with 37 CFR 1.97(d)&(e) which are submitted prior to payment of the issue fee should be not be sent to the examiner or Group 1600 but should either be faxed directly to the Office of Publications at 703-305-8755, or sent by express mail directly to BOX ISSUE FEE, in order to be timely considered and entered. Such submissions may also be made concurrent with payment of the issue fee.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William W. Moore whose telephone number is 703.308.0583 until about January 21, 2004, and will be 571.272.0933 thereafter. The examiner can normally be reached between 9:00AM and 5:30PM EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura Achutamurthy, can be reached at 703.308.3804 until about January 21, 2004, and at 571.272.0928 thereafter. The fax phone numbers for all communications for the organization where this application or proceeding is assigned is 703.872.9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703.308.0196.

William W. Moore December 11, 2003

> NASHAAT T. NASHED PHD. PRIMARY EXAMINER